

From wd5ivd@tapr.org Sat May 02 10:56:46 1998
Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id KAA03041; Sat, 2 May 1998 10:56:23 -0500 (CDT)
Message-Id: <v04003a02b170efeb4e04@[207.8.125.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 2 May 1998 10:54:47 -0500
To: "HF SIG list mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>, " TAPR/AMSAT DSP "<dsp@tapr.org>, "APRS SIG list mailing"<aprssig@tapr.org>, "NETSIG list mailing"<netsig@tapr.org>, "BBS SIG list mailing"<bbssig@tapr.org>, " tacgps "<tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org, TAPR Regional Freq <regional_freq@tapr.org>
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Subject: Dayton 1998 TAPR Digital Forum and Pack*Bash

Dayton 1998 TAPR Digital Forum and PACK*BASH

Dayton Hamvention will be here later this month. Just as a reminder, the TAPR Digital Forum is on Friday and this year starts much earlier than in years past. In addition, the PacketBASH banquet will be held on Friday night.

If you haven't been to Dayton before, you should think about coming this year. The dates for this year are May 15th - 17th. Check out the web page <http://www.tapr.org/tapr/html/dayton.html> for any last minute changes in the schedule.

The schedule for the TAPR digital forum on Friday is:

10:00 - 10:05am (5 min)

Introduction to Forum
John Ackermann, N8UR

10:05 - 10:25am (20 min)

TAPR Kit/Project/Organizational Update - Greg Jones , WD5IVD
TAPR Update and discussion on current activities.

10:25 - 10:45am (20 min)

Regulatory Issues - Dewayne Hendricks, WA8DZP
Update on Regulatory Issues related to Digital activity.

10:45 - 11:30am (45 min)

TAPR 900Mhz FHSS Radio Project
Tom McDermott, N5EG / Greg Jones, WD5IVD
Latest Information on Status and design of 900Mhz FHSS Radio Design.

11:30 - 12:15pm (45 min)

GPS Projects - Steve Bible, N7HPR / Tom Clark, W3IWI
TAPR has introduced several GPS related items in the last year.

DGPS, GPS Interface boards, TAC-2, Future TOC add-on, etc

12:15 - 12:30pm (15 min)

Break

12:30 - 1:00pm (30 min)

Linux AX.25 - John Ackermann, N8UR

Making AX.25 play on Linux

1:00pm - 1:45pm (60 min)

APRS SIG and APRS Update

Stan Horzempa, WA1LOU, APRS SIG Chair with the APRS Authors

SIG meeting discussing current and future activities in APRS.

PACK*BASH and TAPR Banquet

Attending the 1998 Dayton Hamvention? Then don't miss out on PACK*BASH and TAPR Banquet.

What?

An event for the digitally-inclined ham, featuring:

- * Buffet dinner
- * Speaker Doug McKinney, KC3RL
discussing GPS and his Bouy projects in the Pacific
- * TAPR special interest group meetings
- * Prize Drawing!

When?

Friday evening, May 15, 1998

Doors open at 7:00 pm; dinner served at 7:30 pm

Speaker and meetings after dinner

Where?

NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --

South of downtown Dayton, just west of Main St. (Rt 48).

Maps available on the TAPR web site or at the TAPR booth.

(<http://www.tapr.org/tapr/html/dayton.html>)

How?

Dinner requires advance registration and payment through TAPR.

Tickets will be available at the TAPR booth on Friday, though we strongly encourage registration <before> Hamvention. The cost is \$20.00 per person, tax and tip included.

All amateurs are welcome to attend, enjoy the speaker, and participate in the meetings, although only those purchasing a dinner can eat.

To register, contact:

PACK*BASH

c/o TAPR
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399

Phone: (940) 383-0000
Fax: (940) 566-2544
Internet: tapr@tapr.org

Visa/Mastercard Accepted

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio, the national leader in digital communication -- and the Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to <http://www.tapr.org/tapr/html/dayton.html>, or send e-mail to tapr@tapr.org. You can request information via packet radio at BASH@N8ACV.#DAY.OH.USA.NOAM.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399

e-mail: tapr@tapr.org web: <http://www.tapr.org/>
ftp: [ftp.tapr.org](ftp://ftp.tapr.org)
phone: 940-383-0000 fax: 940-565-2544

From cotton22@iAmerica.net Tue May 05 12:16:48 1998
Received: from mailroom.iAmerica.net (mailroom.iAmerica.net [207.101.121.6]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id MAA18036 for <regional_freq@tapr.org>; Tue, 5 May 1998 12:16:47 -0500 (CDT)
Received: from cotton22.iAmerica.net (iax-lawton-ppp0013.iAmerica.net [207.101.40.22])
by mailroom.iAmerica.net (8.8.8/8.8.7) with SMTP id MAA27978
for <regional_freq@tapr.org>; Tue, 5 May 1998 12:16:39 -0500 (CDT)
Message-ID: <354F4A24.4AE7@iAmerica.net>
Date: Tue, 05 May 1998 12:19:32 -0500
From: Jeff Simpson <cotton22@iAmerica.net>
Reply-To: cotton22@iAmerica.net
X-Mailer: Mozilla 3.01 (Win95; I)
MIME-Version: 1.0
To: regional_freq@tapr.org
Subject: Re: [REGIONAL_FREQ:441] Dayton 1998 TAPR Digital Forum and Pack*Bash
References: <v04003a02b170efeb4e04@[207.8.125.50]>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greg Jones, WD5IVD wrote:

>
> Dayton 1998 TAPR Digital Forum and PACK*BASH
>
> Dayton Hamvention will be here later this month. Just as a reminder, the
> TAPR Digital Forum is on Friday and this year starts much earlier than in
> years past. In addition, the PacketBASH banquet will be held on Friday
> night.
>
> If you haven't been to Dayton before, you should think about coming this
> year. The dates for this year are May 15th - 17th. Check out the web page
> <http://www.tapr.org/tapr/html/dayton.html> for any last minute changes in
> the schedule.
>
> The schedule for the TAPR digital forum on Friday is:
>
> 10:00 - 10:05am (5 min)
> Introduction to Forum
> John Ackermann, N8UR
>
> 10:05 - 10:25am (20 min)
> TAPR Kit/Project/Organizational Update - Greg Jones , WD5IVD
> TAPR Update and discussion on current activities.
>
> 10:25 - 10:45am (20 min)
> Regulatory Issues - Dewayne Hendricks, WA8DZP
> Update on Regulatory Issues related to Digital activity.
>
> 10:45 - 11:30am (45 min)
> TAPR 900Mhz FHSS Radio Project
> Tom McDermott, N5EG / Greg Jones, WD5IVD
> Latest Information on Status and design of 900Mhz FHSS Radio Design.
>
> 11:30 - 12:15pm (45 min)
> GPS Projects - Steve Bible, N7HPR / Tom Clark, W3IWI
> TAPR has introduced several GPS related items in the last year.
> DGPS, GPS Interface boards, TAC-2, Future TOC add-on, etc
>
> 12:15 - 12:30pm (15 min)
> Break
>
> 12:30 - 1:00pm (30 min)
> Linux AX.25 - John Ackermann, N8UR
> Making AX.25 play on Linux
>
> 1:00pm - 1:45pm (60 min)
> APRS SIG and APRS Update
> Stan Horzepa, WA1LOU, APRS SIG Chair with the APRS Authors
> SIG meeting discussing current and future activities in APRS.
>
> -----
>
> PACK*BASH and TAPR Banquet
>
> Attending the 1998 Dayton Hamvention? Then don't miss out on PACK*BASH and

> TAPR Banquet.
>
> What?
> An event for the digitally-inclined ham, featuring:
> * Buffet dinner
> * Speaker Doug McKinney, KC3RL
> discussing GPS and his Bouy projects in the Pacific
> * TAPR special interest group meetings
> * Prize Drawing!
>
> When?
> Friday evening, May 15, 1998
> Doors open at 7:00 pm; dinner served at 7:30 pm
> Speaker and meetings after dinner
>
> Where?
> NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --
> South of downtown Dayton, just west of Main St. (Rt 48).
> Maps available on the TAPR web site or at the TAPR booth.
> (<http://www.tapr.org/tapr/html/dayton.html>)
>
> How?
> Dinner requires advance registration and payment through TAPR.
> Tickets will be available at the TAPR booth on Friday, though
> we strongly encourage registration <before> Hamvention. The cost
> is \$20.00 per person, tax and tip included.
>
> All amateurs are welcome to attend, enjoy the speaker, and
> participate in the meetings, although only those purchasing a
> dinner can eat.
>
> To register, contact:
> PACK*BASH
> c/o TAPR
> 8987-309 E. Tanque Verde Road #337
> Tucson, AZ 85749-9399
>
> Phone: (940) 383-0000
> Fax: (940) 566-2544
> Internet: tapr@tapr.org
>
> Visa/Mastercard Accepted
>
> Who?
> PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet
> Radio, the national leader in digital communication -- and the
> Miami Valley FM Association, Dayton's packet radio club.
>
> For more information (including maps), go to
> <http://www.tapr.org/tapr/html/dayton.html>, or send e-mail to
> tapr@tapr.org. You can request information via packet radio at
> BASH@N8ACV.#DAY.OH.USA.NOAM.
>
> -----

> Tucson Amateur Packet Radio
> 8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
> -----
> e-mail: tapr@tapr.org web: <http://www.tapr.org/>
> ftp: ftp.tapr.org
> phone: 940-383-0000 fax: 940-565-2544
> -----

please change my email address to kb5ojr@aol.com
thanks..

From WB9QZB@aol.com Thu May 07 09:34:32 1998
Received: from imo16.mx.aol.com (imo16.mx.aol.com [198.81.17.38]) by tapr.org
(8.7.5/8.7.3/1.9) with ESMTP id JAA20066 for <regional_freq@tapr.org>; Thu, 7 May
1998 09:34:31 -0500 (CDT)
Received: from WB9QZB@aol.com
 by imo16.mx.aol.com (IM0v14.1) id HNLFa00148
 for <regional_freq@tapr.org>; Thu, 7 May 1998 10:33:56 -0400 (EDT)
From: WB9QZB <WB9QZB@aol.com>
Message-ID: <b885cc38.3551c655@aol.com>
Date: Thu, 7 May 1998 10:33:56 EDT
To: regional_freq@tapr.org
Mime-Version: 1.0
Subject: I Have Dayton Hotel Rooms Available
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
X-Mailer: AOL 3.0 16-bit for Windows sub 38

Coordinators -

Everyone year I reserve a block of 10 rooms at a suite hotel in Dayton. I
still have about 4 rooms left this year unused that I'm going to turn in on
Friday if no one takes them. So if you or anyone you know still needs a room
drop me an email or leave me a message at 312-590-2326.

See you in Dayton!!

73, Mark, WB9QZB
NIPRFC (Northern Illinois Packet Radio Frequency Council)

From WB9QZB@aol.com Mon May 11 09:01:10 1998
Received: from imo23.mx.aol.com (imo23.mx.aol.com [198.81.17.67]) by tapr.org
(8.7.5/8.7.3/1.9) with ESMTP id JAA24879 for <regional_freq@tapr.org>; Mon, 11 May
1998 09:01:08 -0500 (CDT)
Received: from WB9QZB@aol.com
 by imo23.mx.aol.com (IM0v14.1) id CPCQa02232;
 Mon, 11 May 1998 09:57:12 -0400 (EDT)
From: WB9QZB <WB9QZB@aol.com>
Message-ID: <4450605e.355703b9@aol.com>
Date: Mon, 11 May 1998 09:57:12 EDT
To: coordinator@cs.tamu.edu, regional_freq@tapr.org
Mime-Version: 1.0
Subject: Dayton Flea Market Spots Available
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

X-Mailer: AOL 3.0 16-bit for Windows sub 38

Coordinators -

Although I will be at Dayton I have a set of 2 flea market spots that I don't fully need to use this year. If you're interested in using them contact me ASAP. You can reach me during the day at 847-774-2937 or drop me an email.

73, Mark, WB9QZB

From wd5ivd@tapr.org Sun May 31 14:22:58 1998

Received: from [207.8.125.50] (greg-jones-pc1.customer.jump.net [207.8.125.50]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id OAA17017; Sun, 31 May 1998 14:22:26 -0500 (CDT)

Message-Id: <v04003a01b1975b5f40bd@[207.8.125.50]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sun, 31 May 1998 14:10:14 -0500

To: "HF SIG list mailing" <hfsig@tapr.org>, " Spread Spectrum " <ss@tapr.org>, " TAPR/AMSAT DSP " <dsp@tapr.org>, "APRS SIG list mailing" <aprssig@tapr.org>, "NETSIG list mailing" <netsig@tapr.org>, "BBS SIG list mailing" <bbssig@tapr.org>, " tacgps " <tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org, TAPR Regional Freq <regional_freq@tapr.org>

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>

Subject: 1998 ARRL and TAPR Digital Communications Conference

1998 ARRL and TAPR Digital Communications Conference

September 25-27, 1998

Chicago, Illinois (minutes from O'Hare Airport)

Web: <http://www.tapr.org/dcc>

It's that time again! Mark your calendar and think about what to publish for the upcoming 17th Annual ARRL and TAPR Digital Communications Conference. This is the third year in which the ARRL Digital Communications Conference and TAPR Annual General Meeting are joined into one conference!

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies, who meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital expert, but for digitally-oriented amateurs at all levels of expertise.

The 1998 ARRL and TAPR Digital Communications Conference will be held September 25-27, 1998, in Chicago, Illinois. This year's conference location is the Holiday Inn Rolling Meadows, just minutes from O'Hare

Airport.

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. This includes APRS operators, digital networks, software writers, modem designers, and digital satellite enthusiasts. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to become active on a national level. Now, more than ever, amateur radio needs this great meeting of the minds because it is important that we demonstrate a continued need for the frequency allocations we have by pushing forward and documenting our achievements. The ARRL and TAPR Digital Communications Conference is one of the few ways to record our accomplishments and challenge each other to do more.

A Conference for the Beginner, Too

The conference is not just for the digital expert. This year's conference again provides multiple session tracks for beginning, intermediate, and advanced presentations on selected topics in digital communications. Topics will include APRS, satellite communications, TCP/IP, digital radio, Spread Spectrum, and many others. Come to the conference and hear these topics presented by the experts! Don't miss this opportunity to listen and talk to others in these areas.

Symposia and Seminars

In addition to the presentation of papers on Saturday, three symposia/seminars will be held. These sessions are provided to allow those with additional time and interest to make the most of the Digital Communications Conference. For those who may have interest in just one symposium or seminar, registration for the conference is not required to attend these activities. This allows maximum flexibility for those who may want to participate during the Digital Communications Conference, but do not have an entire weekend to devote to the event.

The Second APRS National Symposium will be held on Friday and will be moderated by Steve Dimse, K4HG (the developer of javAPRS). It will likely include many APRS software authors, such as Bob Bruninga, WB4APR (the father of APRS), Keith Sproul, WU2Z, Mark Sproul, KB2ICI (the developers of MacAPRS and WinAPRS), Brent Hildebrand, KH2Z (the developer of APRSPUS), and other nationally-known APRS leaders. Join this group for the afternoon and evening for in-depth discussions and presentations on the current and future status of APRS. This is a unique opportunity to gain insight into this fast-growing digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning System).

Starting late Friday afternoon, a half-day seminar titled "Infrastructureless Technologies in Amateur Radio," presented by Don Lemke, WB9MJN, will cover the pros and cons of DDMA (directivity division multiple

access, a proposed infrastructureless technique) versus hubbed (cellular style) and other infrastructure dependant techniques, the basic problem of megabaud rate communications into the ham QTH, and some techniques for channel-area acquisition including full duplex/asynchronous versus simplex/synchronous radio/acquisition concepts. This seminar will start late enough on Friday afternoon to allow those flying that day to attend the seminar.

The Sunday morning seminar will be a combination of two different talks that will make one excellent seminar. The first presentation, by Lyle Johnson, WA7GXD, will focus on the upcoming RUDAK digital communications system scheduled to fly on the AMSAT Phase 3D satellite in the near future. Lyle will discuss features, systems design, integration, and experiments. The goal of the presentation is to zero in on the communications capabilities of RUDAK, the performance to be expected from the 153k6 PSK system, the limitations and capacities of the DSP modems, user requirements for receiving RUDAK, requirements for transmitting to RUDAK, and how amateurs can work to make ground operations a reality once the satellite is in operation. Information on how to submit a proposal for experimental time on RUDAK will be presented. The second presentation will be by Tim Shepard, KD1KY, regarding "Packet Radio Networks with Millions or Billions of Stations." This talk will present concepts and materials that make you think about different possibilities of networking in the future. Both Lyle's and Tim's presentations focus on different aspects of future digital communications possibilities.

Third Annual ARRL and TAPR DCC Student Papers Award

ARRL and TAPR especially welcome papers from full-time students to compete for the third annual student papers award. Two \$500 travel awards may be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see the guidelines for more information). Papers co-authored by educators or telecommunications professionals are also eligible for this award as long as a student is the first author. The deadline for receipt of finished student paper manuscript is June 20, 1998. Please note that this deadline is different from the general conference paper submission date. For full details and paper guidelines contact TAPR or browse to <http://www.tapr.org/dcc>.

Call for Conference Proceeding Papers

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the conference is not required for publication. The primary purpose of the conference is to communicate ideas and techniques regarding digital communications. Papers written in an informal style are welcome, as well as those written to academic standards. If you know of someone who is doing great things with digital communications, be sure to tell them about

this! Papers are due by August 15, 1998, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111, or via e-mail to lweinberg@arrl.org. The paper submission guidelines are available on-line (<http://www.tapr.org/dcc>).

Local/International Co-Host

The 1998 ARRL and TAPR Digital Communications Conference will be co-hosted by Chicago Amateur Packet Radio Association (CAPRA). CAPRA is one of the oldest packet radio groups in the US. It focuses on education about amateur packet radio, coordination of joint efforts of hams interested in packet radio, and technical and equipment support for a sound packet network in the Chicago area. They have had high-speed packet networks operational since the mid-1980s. Visit the CAPRA Web site at <http://www.imaxx.net/capra> for more information.

PRUG (Packet Radio User Group of Japan) will be the first International co-host of the ARRL and TAPR Digital Communications Conference. The conference is proud to welcome PRUG as part of the conference. PRUG will be hosting an informal social Friday evening after the seminar and symposium are completed. Visit <http://www.prug.or.jp> for more information about the organization.

What can you expect during the 1998 ARRL and TAPR Digital Communications Conference?

- * A full day of papers, breakout sessions, and selected topics on Saturday for the beginner to advanced amateur digital enthusiast.
- * Three seminars/symposia
 - Friday (1 PM)
 - Second Annual APRS National Symposium, moderated by Steve Dimse, K4HG
 - Friday (3 PM)
 - Infrastructure Technologies in Amateur Radio conducted by Don Lemke, WB9MJN
 - Sunday (8:30 AM)
 - RUDAK Future Operations and Experimentations by Lyle Johnson, WA7GXD
 - Packet Radio Networks with Millions or Billions of Stations by Tim Shepard, KD1KY
- * Third Annual Student Paper Awards.
- * TAPR Membership Meeting
- * A banquet with special guest speaker Steve Roberts, N4RVE, of Nomadic Research Labs. Creator of the Winnebiko and Behemoth high-tech recumbent

bicycles. His current project is focused on Microship technology (<http://www.microship.com/>).

- * SIGs (Special Interest Groups) get-togethers on Saturday, following the banquet
- * Informal get-togethers throughout the weekend
- * A facility that is perfect for this type of conference
- * Informal engineering discussions/demonstration areas
- * Motorola Museum located in the area.
- * An event at which the most important new developments in amateur digital communications are announced
- * Digital 'movers and shakers' from all over the world in attendance

Conclusion

If you have attended a Digital Communications Conference in the past, remember how much fun it was discussing the latest developments into the wee hours! If you have never been to a Digital Communications Conference, then make your plans now to attend and find out how much fun they can be.

There are few activities where your participation can be so much fun and so important! You will be able to get together with colleagues from all over the world and bring each other up to date on your latest work. Experience all this and more for an unforgettable weekend of ham radio and digital communications. Make your travel and lodging arrangements now. We hope to see you at the ARRL and TAPR Digital Communications Conference, September 25-27!

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road #337, Tucson, AZ 85749-9399, phone 940-383-0000, fax 940-566-2544, e-mail tapr@tapr.org, browse www.tapr.org/dcc.

Sincerely,

Steve Ford, WB8IMY, ARRL Conference Co-Chair
Greg Jones, WD5IVD, TAPR Conference Co-Chair
Steve Stroh, N8GNJ, Conference Manager
Mark J. Thompson, WB9QZB, Local Host Liaison
Carl Bergstedt, K9VXW, Local Host Liaison

Note: If you need conference handouts or flyers for ham club meetings, contact TAPR to get what you need!

Hotel Information

Conference presentations, meetings, and seminars will be held at the Holiday Inn Rolling Meadows. Special DCC rooms rates are \$85 per night. When making reservations with the hotel, be sure to indicate you are attending the ARRL and TAPR DCC in order to get the discount. It is highly recommended that you book your room prior to arriving. A block of 75 rooms is reserved until August 31, 1998. After the 75 rooms are booked, rooms will only be available in nearby hotels, so be sure to book your rooms early! The hotel provides transportation to and from O'Hare Airport. Please contact the hotel to arrange specific transportation needs.

Holiday Inn Rolling Meadows (conference hotel)
3405 Algonquin Rd
Rolling Meadows, IL 60008
Phone 847-259-5000, fax 847-259-0597

Registration

Contact the TAPR office by phone, fax, or e-mail (numbers and addresses are above) to register or for additional meeting information. MasterCard and VISA are accepted.

- Preregistration (before Sept 1): \$42.00 *

- Late registration or at door: \$47.00 *

* - Conference registration includes Conference Proceedings, Saturday sessions/meetings, and lunch.

- Saturday Evening Dinner (limited space): \$20.00 **

** - Includes dinner, speaker, prize drawing

Seminar/symposia

Note: You do not have to be registered for the conference to attend one or more of the seminars/symposia.

- Friday, 1-8 PM, Second Annual APRS National Symposium (full day)

Registration: \$25***

- Friday 3-7 PM, Infrastructure Technologies in Amateur Radio, conducted by Don Lemke, WB9MJN

Registration: \$15***

Sunday 8:30-11 AM and 11:30 AM-2 PM, RUDAK Future Operations and Experimentations by Lyle Johnson, WA7GXD, and Packet Radio Networks with Millions or Billions of Stations by Tim Shepard, KD1KY

Registration \$20***

*** Cost of seminar or symposium includes the cost of handout materials.

Contact TAPR to register for the DCC:

Tucson Amateur Packet Radio
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399.
phone 940-383-0000, fax 940-566-2544
e-mail tapr@tapr.org, browse <http://www.tapr.org>